

What is claimed is:

1. A method for improving the integrity of the corneal epithelium comprising introducing an ophthalmically compatible form of a retinoid into the eye in an amount sufficient to enhance the integrity of the corneal epithelium.
2. The method of claim 1 further comprising introducing the retinoid into the eye in the form of an ophthalmic solution.
3. The method of claim 1 further comprising introducing the ophthalmic solution in the form of drops or mist.
4. The method of claim 1 wherein the retinoid is introduced into the eye in the form of a gel or ointment.
5. The method of claim 1 further comprising introducing the retinoid into the eye by applying the retinoid to a contact lens and placing the contact lens in the eye.
6. The method of claim 5 wherein the step of applying the retinoid to the contact lens further comprises attaching the retinoid to a linking agent.
7. The method of claim 5 wherein said applying step further comprises dipping the contact lens in a solution containing the retinoid.
8. The method of claim 1 further comprising placing in the eye a sustained release form of the retinoid.
9. The method of claim 5 wherein said sustained release form of the retinoid further comprises a contact lens containing the retinoid.
10. The method of claim 6 wherein the contact lens contains sorbed retinoid.
11. The method of claim 7 wherein the retinoid is adsorbed onto the contact lens.

12. A method for improving the integrity of the corneal epithelium in an eye wearing a contact lens comprising introducing an ophthalmically compatible form of a retinoid into the eye in an amount sufficient to enhance the integrity of the corneal epithelium.
13. The method of claim 12 further comprising introducing the retinoid into the eye in the form of drops.
14. The method of claim 12 further comprising introducing the retinoid into the eye by applying the retinoid to a contact lens and placing the contact lens in the eye.
15. The method of claim 14 wherein said applying step further comprises dipping the contact lens in a solution containing the retinoid.
16. The method of claim 12 further comprising placing in the eye a sustained release form of the retinoid.

- <sup>1</sup> Barr, J.T. 1997. Contact lenses and vision: the annual report. *Contact Lens Spectrum*. 12:21.
- <sup>2</sup> Mondino, B.J. and L.R. Groden. 1980. Conjunctival hyperemia and corneal infiltrates with chemically disinfected soft contact lenses. *Arch. Ophthalmol.* 98:1767.
- <sup>3</sup> Friedlaender, M.H. 1979. Ocular allergy and immunology. *J Allergy Clin Immunol.* 63:51.
- <sup>4</sup> Suchecki, J.K. , Ehlers, W.H., and P.C. Donshik. 1996. Peripheral corneal infiltrates associated with contact lens wear. *CLAO J.* 22:41.
- <sup>5</sup> Suchecki, J.K. , Ehlers, W.H., and P.C. Donshik. 1996. Peripheral corneal infiltrates associated with contact lens wear. *CLAO J.* 22:41.
- <sup>6</sup> Ahmed, F. 1999. Vitamin A deficiency in Bangladesh: a review and recommendations for improvement. *Public Health Nutr.* 2:1.
- <sup>7</sup> Florentino, R.F., C.C. Tanchoco, M.P. Rodriguez, A.J. Cruz, and W.L. Molano. 1996. Interaction among micronutrient deficiencies and undernutrition in the Philippines. *Biomed. Environ Sci.* 9:348.
- <sup>8</sup> Rodriguez, A. G. Guam'an, and D.P. Nelson. 1996. Vitamin A status of children in five Ecuadorian provinces. *Bull. Pan. Health Organ.* 30:234.
- <sup>9</sup> Rice, A.L., R.J. Stoltzfus, A. de Francisco, J. Chakraborty, C.L. Kjolhede and M.A. Wahed. 1999. Maternal vitamin A or beta-carotene supplementation in lactating bangladeshi women benefits mothers and infants but does not prevent subclinical deficiency. *J. Nutr.* 129:356.
- <sup>10</sup> Sommer, A. 1998. Xerophthalmia and vitamin A status. *Prog. Retin. Eye Res.* 17:9.
- <sup>11</sup> Wiedermann, U., X.J. Chen, L. Enerback, L.A. Hanson, H. Kahu, and U.I. Dahlgren. 1996. Vitamin A deficiency increases inflammatory responses. *Scand. J. Immunol.* 44:578.
- <sup>12</sup> Dawson, H.D., N.Q. Li, K.L. DeCicco, J.A. Nibert, and A.C. Ross. 1999. Chronic marginal vitamin A status reduces natural killer cell number and function in aging Lewis rats. *J. Nutr.* 129:1510.
- <sup>13</sup> McCullough, F.S., C.A. Northrop-Clewes and D.I. Thurnham. 1999. The effect of vitamin A on epithelial integrity. *Proc. Nutr. Soc.* 58:289.
- <sup>14</sup> Goetghebuer, T. et.al. 1996. Significance of very low retinol levels during severe protein-energy malnutrition. *J. Trop. Pediatr.* 42:158.
- <sup>15</sup> Donnen, P. 1996. Vitamin A deficiency and protein-energy malnutrition in a sample of pre-school age children in the Kivu Province in Zaire. *Eur. J. Clin. Nutr.* 50:456.
- <sup>16</sup> Watanabe, H. et.al.. 1997. Expression of a mucin-like glycoprotein produced by ocular surface epithelium in normal and keratinized cells. *Am J. Ophthalmol.* 124:751.
- <sup>17</sup> Tei, M., S.J. Spurr-Michaud, A.S. Tisdale, and I.K. Gipson. 2000. Vitamin A deficiency alters the expression of mucin genes by the rat ocular surface epithelium. *IOVS.* 41:82.